## **CLAIMS**

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- 1. A method of adding an element to a partition of a partitionable computer system comprising
- receiving an instruction to join the partition by the element;

  determining the security status of the element;

  updating a routing table of a routing device in communication with the partition when the security status of the element is secure; and transitioning the security status of the element to unsecure.

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- 2. The method of claim 1 wherein the receiving comprises receiving the instruction from a processor of the partition.
- 3. The method of claim 1 wherein the updating comprises adding an element identifier to a route enable mask of the routing device.
  - 4. The method of claim 1 wherein the determining comprises accessing a register.
- 5. A method of moving an element from a first partition of a partitionable computing system to a second partition of the partitionable computing system comprising: receiving an instruction to join the second partition by the element; removing the element from the first partition; updating a routing table of a first routing device in communication with the
  - second partition when the security status of the element is secure;

    updating a routing table of a second routing device in communication with the first partition when the element is removed from the first partition; and transitioning the security status of the element to unsecure.
- 30 6. The method of claim 5 wherein the receiving comprises receiving the instruction from a processor of the first partition.

- 7. The method of claim 5 wherein the updating comprises adding an element identifier to a route enable mask of the first routing device.
- 8. The method of claim 7 wherein the updating further comprises removing an element identifier from a route enable mask of the second routing device.
  - 9. The method of claim 5 wherein the determining comprises accessing a register.
- 10 The method of claim 6 further comprising rebooting the element after the removing.
  - 11. The method of claim 10 further comprising performing self-initialization by the element.
  - 12. The method of claim 11 further comprising transitioning the element from an unsecure state to a secure state after the self-initialization.
- 13. A method of transitioning an element associated with a partition of a partitionable computer system comprising:

removing the element from the partition; and rebooting the element thereby causing the element to transition to a secure state.

- 25 14. The method of claim 13 wherein the rebooting comprises performing self-initialization by the element.
  - 15. A method of removing an element from a partition of a partitionable computing system comprising:
  - receiving an instruction to remove the element;
    removing the element from the first partition; and
    updating a routing table of a routing device in communication with the
    partition when the element is removed from the first partition.

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- 16. The method of claim 15 wherein the receiving comprises receiving the instruction from a processor of the partition.
- 5 17. The method of claim 15 wherein the updating comprises removing an element identifier from a route enable mask of the routing device.
  - 18. The method of claim 15 further comprising rebooting the element after the removing.

19. A method of forming a partition of a partitionable computing system during a boot process comprising:

receiving an instruction by an element to join the partition; determining the security status of the element;

updating a routing table of a routing device in communication with the partition when the security status of the element is secure; and transitioning the security status of the element to unsecure.

- 20. The method of claim 19 wherein the receiving comprises receiving the instruction from a processor of the partition.
  - 21. The method of claim 19 wherein the updating comprises adding an element identifier to a route enable mask of the routing device.
- 25 22. The method of claim 19 wherein the determining comprises accessing a register.
  - 23. A computer readable medium comprising instructions configured to add an element to a partition of a partitionable computer system by:

receiving an instruction to join the partition by the element; determining the security status of the element;

updating a routing table of a routing device in communication with the partition when the security status of the element is secure; and

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transitioning the security status of the element to unsecure.

24. A computer readable medium comprising instructions configured to move an element from a first partition of a partitionable computing system to a second partition of the partitionable computing system by:

receiving an instruction to join the second partition by the element; removing the element from the first partition;

updating a routing table of a first routing device in communication with the second partition when the security status of the element is secure;

updating a routing table of a second routing device in communication with the first partition when the element is removed from the first partition; and transitioning the security status of the element to unsecure.

25. A computer readable medium comprising instructions configured to remove an element from a partition of a partitionable computer system by:

receiving an instruction to remove the element;
removing the element from the first partition; and
updating a routing table of a routing device in communication with the
partition when the element is removed from the first partition.

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26. A computer readable medium comprising instructions configured to create a partition of a partitionable computer system during a boot process by:

receiving an instruction by an element to join the partition; determining the security status of the element;

updating a routing table of a routing device in communication with the partition when the security status of the element is secure; and transitioning the security status of the element to unsecure.